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12694727

Basic Patent (No,Kind,Date): JP 6196389 A2 19940715

PATENT FAMILY:

JAPAN (JP)

Patent (No,Kind,Date): JP 6196389 A2 19940715

ILLUMINATING OPTICAL APPARATUS (English)

Patent Assignee: NIPPON KOGAKU KK

Author (Inventor): TANITSU OSAMU; MORI KOJI

Priority (No,Kind,Date): JP 9319098 A 19930205; JP 92219921105

Applic (No,Kind,Date): JP 9319098 A 19930205

IPC: * H01L-021/027; G03B-027/32; G03B-027/54; G03F-007/20

Derwent WPI Acc No: * G 94-267610; G 94-267610

JAPIO Reference No: * 180545E000023; 180545E000023

Language of Document: Japanese

Patent (No,Kind,Date): JP 7263312 A2 19951013

LIGHTING OPTICAL DEVICE (English)

Patent Assignee: NIPPON KOGAKU KK

Author (Inventor): YAMAMOTO NORIAKI; MORI KOJI

Priority (No,Kind,Date): JP 9451490 A 19940323

Applic (No,Kind,Date): JP 9451490 A 19940323

IPC: * H01L-021/027; G03B-027/54; G03F-007/20

Derwent WPI Acc No: * G 95-387345; G 95-387345

Language of Document: Japanese

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5379091 A 19950103

ILLUMINATION OPTICAL APPARATUS AND SCANNING EXPOSURE APPARATUS (English)

Patent Assignee: NIPPON KOGAKU KK (JP)

Author (Inventor): TANITSU OSAMU (JP); MORI TAKASHI (JP)

Priority (No,Kind,Date): JP 92295458 A 19921105; JP 9319019930205

Applic (No,Kind,Date): US 147259 A 19931104

National Class: * 035567000; 355530000

IPC: * G03B-027/42; G03B-027/54

Derwent WPI Acc No: * G 94-267610

JAPIO Reference No: * 180545E000023

Language of Document: English

Patent (No,Kind,Date): US 5636003 A 19970603

ILLUMINATION OPTICAL APPARATUS AND SCANNING EXPOSURE APPARATUS

(English)
 Patent Assignee: NIPPON KOGAKU KK (JP)
 Author (Inventor): TANITSU OSAMU (JP); MORI TAKASHI (JP);
 NORIAKI (JP)
 Priority (No,Kind,Date): US 365532 A 19941228; JP 9229545
 19921105; JP 9319098 A 19930205; JP 9451490 A 1994032
 147259 B2 19931104
 Applic (No,Kind,Date): US 365532 A 19941228
 National Class: * 355067000; 355053000; 359618000
 IPC: * H01L-021/027
 Derwent WPI Acc No: * G 94-267610; G 95-387345
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 Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

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|------------|---|--------------|-------------------------------------|--------------------|
| US 5379091 | P | 19921105 | US AA | PRIORITY (PATENT) |
| | | | JP 92295458 A | 19921105 |
| US 5379091 | P | 19930205 | US AA | PRIORITY (PATENT) |
| | | | JP 9319098 A | 19930205 |
| US 5379091 | P | 19931104 | US AE | APPLICATION DATA (|
| | | | (APPL. DATA (PATENT)) | |
| | | US 147259 A | | 19931104 |
| US 5379091 | P | 19950103 | US A | PATENT |
| US 5379091 | P | 19950307 | US DJ | ALL REFERENCES SHO |
| | | | DELETED, NO PATENT WAS GRANTED | |
| US 5636003 | P | 19921105 | US AA | PRIORITY (PATENT) |
| | | | JP 92295458 A | 19921105 |
| US 5636003 | P | 19930205 | US AA | PRIORITY (PATENT) |
| | | | JP 9319098 A | 19930205 |
| US 5636003 | P | 19931104 | US AA | PRIORITY |
| | | US 147259 B2 | | 19931104 |
| US 5636003 | P | 19940323 | US AA | PRIORITY (PATENT) |
| | | | JP 9451490 A | 19940323 |
| US 5636003 | P | 19941228 | US AE | APPLICATION DATA (|
| | | | (APPL. DATA (PATENT)) | |
| | | US 365532 A | | 19941228 |
| US 5636003 | P | 19950301 | US AS02 | ASSIGNMENT OF ASSI |
| | | | INTEREST | |
| | | | NIKON CORPORATION 2-3, MARUNOUCHI 3 | |
| | | | CHIYODA-KU, TOKYO, JAPAN ; TANITSU, | |
| | | | 19950216; MORI, TAKASHI : 19950216; | |
| | | | NORIAKI : 19950216 | |
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| US 5636003 | P | 19991221 | US RF | REISSUE APPLICATIO |
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| | | | 19990603 | |

No litigation

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